## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A thin film semiconductor device, comprising: a substrate;

an underlevel protection layer formed over the substrate and including a plurality of films, at least one of which includes a silicon oxide; and

a crystallized semiconductor layer in contact with the film including the silicon oxide, wherein the crystallized semiconductor layer forms an active layer of a transistor,

an effective doping concentration of the crystallized semiconductor layer figuring 1x 10<sup>18</sup> cm<sup>-3</sup> or less and the crystallized semiconductor layer having the thickness of 9 nm to 135 nm, which are to-prevents the spread of depletion layers from being constrained at the interface between the crystallized semiconductor layer and the underlevel protection layer.

concentration of trapping states and crystal defects in the crystallized semiconductor layer, and concentrations of doping ions therein defining the effective doping concentration.

(Currently Amended) A thin film semiconductor device, comprising:
 a substrate;

an underlevel protection layer including an insulating material, the underlevel protection layer being formed on at least a portion of the substrate; and

a field effect transistor having:

a semiconductor film on the underlevel protection layer;
a gate insulator layer formed on the semiconductor film;

a gate electrode formed on the gate insulator layer; and an electrically insulating interlevel insulator layer formed over the gate electrode and between interconnects of said field effect transistor, the underlevel protection layer, the gate insulator layer, and the interlevel insulator layer comprising a silicon oxide film and having a combined thickness of about 2 µm or less.

an effective doping concentration of the semiconductor film figuring 1

x 10<sup>18</sup> cm<sup>-3</sup> or less and the semiconductor film having the thickness of 9 nm to 135 nm,

which prevents the spread of depletion layers from being constrained at the interface between the semiconductor film and the underlevel protection layer,

concentration of trapping states and crystal defects in the

semiconductor film, and concentrations of doping ions therein defining the effective doping
concentration.